

## PATENT ABSTRACTS OF JAPAN

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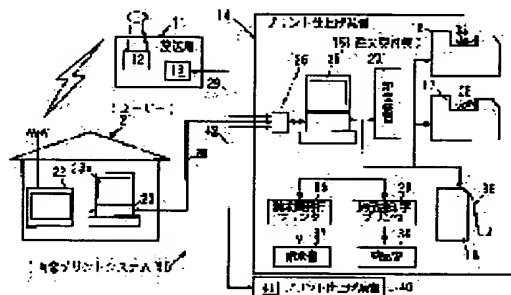
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## (54) METHOD AND SYSTEM FOR PRINTING PICTURE

## (57)Abstract:

PROBLEM TO BE SOLVED: To obtain a high-quality print.

SOLUTION: A broadcasting station 11 broadcasts a video program by adding frame discrimination information for discriminating respective frames while making it correspond to respective frames of the video program. By a user 21 designates the frame to be printed while viewing the video program. When the frame to be printed is designated, it is specified based on the frame discrimination information. Then, the frame discrimination information and print order information are sent to a print finishing trader 14 by the user 21. By the trader 14, the original picture data of the frame to be printed is obtained by retrieving the picture data base 13 of the station 11 based on the frame discrimination information. Besides, the frame to be printed is printed based on the picture data and the print order information and the print thereof is sent to the user 21 by the trader 14. Since the picture data itself need not be data-transferred, a communication cost is suppressed. Besides, since the frame to be printed is printed by using the original picture data, the high-quality print fitted to be viewed even when printing size is enlarged is obtained.



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CLAIMS

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[Claim(s)]

[Claim 1] It is the image print approach characterized by specifying an image coma for a print in said image program, and for delivery and a print successful bidder specifying an image coma for a print at a print successful bidder based on said coma identification information, and printing this coma identification information and print ordering information based on print ordering information from the original image of said image program by the coma identification information for corresponding to each image coma of an image program, and identifying each image coma.

[Claim 2] Make it correspond to each image coma of the image program of television broadcasting, add and broadcast the coma identification information for identifying each image coma, and each of this broadcast image coma is observed. Specify an image coma for a print and the coma identification information of this specified image coma for a print is read. It is the image print approach characterized by for delivery and a print successful bidder specifying an image coma for a print for this coma identification information and print ordering information as a print successful bidder based on coma identification information, obtaining original image data to it, and printing on it based on print ordering information.

[Claim 3] Make it correspond to each image coma of the image program recorded on the record medium, and the coma identification information for identifying each image coma is added. Observe each image coma reproduced with the regenerative apparatus, and an image coma for a print is specified. The coma identification information of this specified image coma for a print is read. This coma identification information and print ordering information to a print successful bidder delivery and a print successful bidder The image print approach characterized by specifying an image coma for a print based on coma identification information, obtaining original image data, and printing based on print ordering information.

[Claim 4] Claim 1 characterized by constituting said coma identification information from title identification information of an image program, and a frame number of each image coma thru/or the image print approach given in any 3one.

[Claim 5] Claim 1 characterized by constituting said coma identification information from counted value of the elapsed time on the basis of the detection timing and this detection timing of the break signal formed in the image program, or the number of progress image coma thru/or the image print approach given in any 3one.

[Claim 6] The image print approach according to claim 2 characterized by constituting said coma identification information from the identification information and broadcast time data of a broadcasting station.

[Claim 7] Said print ordering information is claim 1 characterized by having the print directions data which direct print size and print number of sheets, and purchaser discernment data for identifying a purchaser thru/or the image print approach given in any 6one.

[Claim 8] An image coma specification means to specify an image coma for a print based on coma identification information from an image program, A data transmitting means to send said coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image

coma for a print in an image database, It has a print means to print based on the image data and print ordering information which were read. It is the image print system characterized by forming said image coma specification means and a data transmitting means in a purchaser side, and forming said image data reading means and a print means in a print successful-bidder side.

[Claim 9] An image coma specification means to specify an image coma for a print from the image program which has the coma identification information which identifies each image coma, A coma identification information reading means to read the coma identification information of the specified image coma for a print, A data transmitting means to send coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, It has a print means to print based on the image data and print ordering information which were read. It is the image print system characterized by forming said image coma specification means, a coma identification information reading means, and a data transmitting means in a purchaser side, and forming said image data reading means and a print means in a print successful-bidder side.

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the image print approach and a system.

[0002]

[Description of the Prior Art] When printing the scene of television broadcasting etc., the home video printer is used.

[0003]

[Problem(s) to be Solved by the Invention] In such a home video printer, there is a problem that resolution is low and the print of high quality is not obtained. Moreover, print size is also fixed and postcard size extent of magnitude is a limit. And image data, such as a scene by which television broadcasting was carried out, has the problem that image quality deteriorates by the effect of the noise under transmission, incorporation processing of the image data in a video printer, transform processing to digital data, etc.

[0004] This invention aims at offering the image print approach and system for solving the above-mentioned technical problem which it is and enabled it to print a television broadcasting scene etc. on high quality in large size.

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, by the coma identification information for the image print approach according to claim 1 corresponding to each image coma of an image program, and identifying each image coma, an image coma for a print in said image program is specified, and delivery and a print successful bidder specify an image coma for a print as a print successful bidder based on said coma identification information, and print this coma identification information and print ordering information on it based on print ordering information from the original image of said image program. There are some which were recorded on that by which television broadcasting was carried out as an image program, a video tape, etc.

[0006] It is desirable to constitute said coma identification information from title identification information of an image program and a frame number of each image coma. Moreover, it is desirable to constitute said coma identification information from counted value of the elapsed time on the basis of the detection timing and this detection timing of the break signal formed in the image program or the number of progress image coma. It is desirable to constitute said coma identification information from the identification information and broadcast time data of a broadcasting station. As for said print ordering information, it is desirable to have the print directions data which direct print size and print number of sheets, and purchaser discernment data for identifying a purchaser.

[0007] An image coma specification means by which an image print system according to claim 8 specifies an image coma for a print based on coma identification information from an image program, A data transmitting means to send said coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, It

has a print means to print based on the image data and print ordering information which were read, said image coma specification means and a data transmitting means are formed in a purchaser side, and said image data reading means and a print means are formed in a print successful-bidder side.

[0008] An image coma specification means to specify an image coma for a print from the image program which has the coma identification information from which an image print system according to claim 9 discriminates each image coma, A coma identification information reading means to read the coma identification information of the specified image coma for a print, A data transmitting means to send coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, It has a print means to print based on the image data and print ordering information which were read. Said image coma specification means, a coma identification information reading means, and a data transmitting means are formed in a purchaser side, and said image data reading means and a print means are formed in a print successful-bidder side.

[0009]

[Function] On the occasion of television broadcasting, it is made to correspond to each image coma of television broadcasting, and the coma identification information for identifying each image coma is added. If each scene of a television set is observed and an image coma for a print is found, the coma identification information of this image coma will be read. This coma identification information and the purchaser identification information registered beforehand are transmitted to a print successful bidder from a purchaser by data communication with a personal computer etc. Based on the sent coma identification information, a print successful bidder specifies an image coma for a print, and reads the original image data which corresponds from an image database. It prints using this read high resolution original image data. Since it prints using the high-resolution image data registered into the image database, it is large size and a quality print comes to be obtained. When similarly using the record medium which recorded image programs, such as a movie, a similarly quality print comes to be obtained by a print successful bidder's obtaining original image data based on this coma identification information, and printing based on this by specifying an image coma for a print by the coma identification information which identifies each image coma, and sending this coma identification information to a print successful bidder. In addition, the high-resolution image data with which the original image data in this invention carried out the image processing of the subject-copy data other than the subject-copy data itself used for broadcast etc. is contained.

[0010]

[Embodiment of the Invention] Drawing 1 is the schematic diagram showing the image print system of this invention. The image print system 10 of this invention consists of the public address system 12 and the image database 13 which are installed in a broadcasting station 11, the order reception machine 15 and printers 16, 17, 18, 19, and 20 which are installed by the printed finish contractor 14 as a successful bidder, and the television set 22 and the print order machine 23 installed in the user 21 side as a purchaser.

[0011] The public address system 12 broadcasts an image program as everyone knows. On the occasion of broadcast of this image program, it is made to correspond to each image coma of television broadcasting, and the coma identification information for identifying each image coma is added. Coma identification information is put on the non-image field of a TV signal, and is sent to the television set 22 by the side of a user 21 with a video signal and a sound signal. This coma identification information is coded and constituted combining a broadcasting station name, a program name, time, and an image coma number.

[0012] The television set 22 by the side of a user 21 outputs voice from a loudspeaker while displaying the image program currently broadcast as everyone knows on a television screen. Moreover, the coma identification information of each scene currently broadcast is decoded, and this coma identification information is sent to the print order machine 23.

[0013] The print order machine 23 consists of well-known personal computers which consist of

body of personal computer, keyboard, and display 23a, a hard disk drive unit, a modem, etc., and it is constituted so that data transfer of specification of an image coma for a print, incorporation of the coma identification information of an image coma for a print, and a print order may be performed according to the procedure shown in drawing 2. For this reason, the print order machine 23 is equipped with the image coma assignment key for a print, it is that this image coma assignment key is pressed, and incorporates the image data currently displayed on the television set 22, and the coma identification information corresponding to this image data, and memorizes them in the memory of built-in of this. Moreover, the image data and coma identification information which were memorized by memory are displayed on display 23a of the print order machine 23.

[0014] Print order data are beforehand registered into the print order machine 23. This print order data consists of the print directions data which direct print size and print number of sheets, user ID data for identifying a user, delivery-of-goods approach directions data which direct the delivery-of-goods approach of a print, and tariff payment approach directions data which direct the tariff payment approach, and is beforehand inputted from the keyboard etc. Either of the items, such as a name for user ID data to specify an individual before user's registration, the address, and the telephone number, or the thing which combined these is used. A user ID number is used after user's registration.

[0015] In print order entry-of-data processing, print directions data, the delivery-of-goods approach directions data, the tariff payment approach directions data, and user ID data are inputted. In addition, once each [ these ] data is inputted, it will be memorized, the print order data when next placing an order last time will be displayed on a display, and the input of common data for the second time will be omitted.

[0016] Print directions data consist of data which direct print size, print number of sheets, a print format, and a print method. A0 size [ print size directs sizes, such as E size in a film photo printer L size, and cabinet size size, and also ] in an ink jet printer, a thermal printer, etc., and ... sizes, such as A4 size and A6 size, are directed. Print number of sheets directs the number of sheets in each print size.

[0017] Print formats are a special size print like a panorama print, an index print, a multi-print, a seal print, a character composition print, and a thing that directs a monochrome print etc. further. The seal print is stuck on the releasing paper, and it removes, and is used, sticking on other things, and many are used together with a multi-print. A print method directs a film photo printer, an ink jet printer, a thermal printer, other printers, etc.

[0018] When the tariff payment approach directions data direct an approach to pay a tariff and you wish the delivery of goods of mailing and delivery, credit card payment, bank automatic accounts transfer, bank transfer, prepaid card payment, etc. are chosen. Moreover, when you wish the delivery of goods of a receipt, the cash payment other than the above-mentioned payment gestalt is chosen.

[0019] User ID data identify a user and consist of a user's name, the address, a zip code, the telephone number, an ID number, etc. In addition, placing an order once or by registering before an order, the print order data of these single strings are registered into an order number like order 1 and order 2, a user ID number and a password may only be entered, in the case of a next order, it may connect with a printed finish contractor's order reception machine 15, and coma identification information and an order number may be inputted.

[0020] The image of the image coma for a print displayed on said display 23a is observed, and a definite key is pressed when good now. If a definite key is pressed, the print order machine 23 will become data transfer mode, and the above-mentioned print order data and coma identification information which were registered beforehand will be sent to the order reception machine 15 by the side of the printed finish contractor 14.

[0021] Since the order reception machine 15 has much amount of data to treat, it consists of workstations 25 which are highly efficient and high-speed computer systems, and it is constituted so that procedure may perform reception processing, incorporation processing of object image data, and print processing, as shown in drawing 3. The workstation 25 is equipped with a modem 26 and the mass storage 27. It connects with the print order machine 23 by the

side of a user 21 through a dial-up line 28, and also a modem 26 is connected to the image database 13 of a broadcasting station 11 through a leased telephone circuit 29. Original high quality image data is memorized by the image database 13 of a broadcasting station 11 based on coma identification information.

[0022] The record ingredient is set to the digital printer 18, respectively, and the sensitive material with which paper sizes differ in said digital printers 16 and 17 prints size from which these printers 16-18 differ. Printers 16 and 17 consist of silver salt method color digital printers, carry out scan exposure of the silver salt method color sensitive material (color paper) based on digital data, and carry out printing exposure of the image. The thing of positive POJITAIPU is used and, as for a color paper, printing exposure of the color paper is carried out by the positive image.

[0023] The silver salt method color digital printer 16 carries out printing exposure of each image by having the printing exposure section 30 of the scan exposure method by laser light, modulating a light beam based on image data, making it synchronize with delivery of a color paper 31, and carrying out scan exposure of the yellow of a color paper 31, a Magenta, and each sensitization layer of cyanogen, as shown in drawing 4. After the development of the color paper [finishing / this printing exposure] 31 is carried out by the paper processor 32, based on a cut mark, it is separated for every image coma, and the print 33 of L size is created. Moreover, the flesh-side printing machine 34 is formed and this flesh-side printing machine 34 records a receipt number, user ID numbers, and these bar codes on the rear face of the color paper 31 to which each image was made equivalent. The silver salt method color digital printer 17 of another side is constituted similarly. The thing of cabinet size size is set to this printer 17, and the print 35 of cabinet size size is created.

[0024] The field exposure method or line exposure method which used CRT, a liquid crystal display panel, etc. other than the scan exposure method by laser light may be used for the printing exposure section 30. Moreover, instead of modulating a light beam, micro mirror equipment may be used and scan exposure may be carried out. Size arranges a very small mirror (micro mirror) to Rhine or a matrix, controls whenever [tilt-angle / of each micro mirror], and micro mirror equipment deflects incident light.

[0025] As a color paper, when using the thing of negative POJITAIPU, positive negative conversion of the image data is carried out. This positive negative conversion is performed in the image-processing section of digital printers 16-18, and also you may carry out in the image-processing section of the order reception machine 15. In addition, the image-processing section of digital printers 16-18 performs a gamma correction and matrix amendment, and he is trying for the concentration and color balance of a print which were obtained to become the optimal.

[0026] Moreover, the printer 18 consists of well-known ink jet method color digital printers. This printer 18 is chosen when the print method directions data of user order data are an ink jet method, and it creates the print 36 of size with big A0 - A4 size, etc. For this reason, the recording paper of various sizes is set to the printer 18, and the recording paper which corresponds according to size assignment is chosen. The flesh-side printing machine is formed also in this printer 18, and a receipt number, user ID numbers, and these bar codes are recorded on the rear face of a record ingredient.

[0027] As shown in drawing 1, the bill issue printer 19 prints a bill 37 based on the data of the order reception machine 15. Moreover, the delivery-of-goods bag printing printer 20 prints the address, a name, a zip code, etc. into the delivery-of-goods bag 38.

[0028] The printed finish contractor's 14 order reception machine 15 is connected with the order reception machine 41 of the processing laboratory of a sequence, or the finishing contractor 40 through the leased telephone circuit 42. And in the order of the print processing beyond a throughput, the case of an order of the print size which cannot be processed, or a print format, in failure of a printer 16-18, etc., print order data are transmitted to other sequence processing laboratories and finishing contractors 40, and delivery-of-goods processing is performed by these finishing contractor 40 print processing and if needed.

[0029] Next, an operation of this operation gestalt is explained. When there is a scene to print watching a television set 22, a user 21 operates the print order machine 23, specifies an image



coma for a print, and incorporates this image data. The incorporated image data is displayed on monitoring screen 23a of the print order machine 23. Moreover, coma identification information is incorporated by the memory of the print order machine 23. When an image coma for a print is checked with a monitoring screen, a definite key is operated and an image coma for a print is specified. Since print order data, the printed finish contractor's 14 telephone number, etc. are beforehand set to the print order machine 23, coma identification information and print order data are sent to the printed finish contractor's 14 order reception machine 15 by actuation of a definite key.

[0030] As shown in drawing 3, based on coma identification information, the order reception machine 15 searches the image database 13 of a broadcasting station 11, and reads the corresponding original image data. Next, the specified print is performed based on this image data and print order data. In addition, JPEG (Joint Photographic Experts Group) compression of the image data of each image coma memorized by the image database 13 of a broadcasting station 11 is carried out, for example, and shortening of a data transfer time is attained. The compression method of other common knowledge is used without limiting a data compression method to JPEG.

[0031] On the occasion of this specified print, a well-known image processing is performed by the image-processing section of each printers 16-18 if needed. As an image processing, there are a gamma correction, matrix amendment, alphabetic character illustration composition, expansion/contraction, trimming, image composition, etc., for example.

[0032] Moreover, the flesh-side printing machine of each printers 16-18 prints a receipt number, user ID numbers, and these bar codes at the rear face of prints 33, 35, and 36. These receipt numbers, a user ID number, and a bar code are used for collating with a bill and a delivery-of-goods bag by next delivery-of-goods processing.

[0033] In parallel to a print, print processing of a bill and a delivery-of-goods bag is performed before and after a print. In bill issue processing, by the bill issue printer 19, the order reception machine 15 prints the bar code of the detail of a charge rate, a receipt number, a user ID number, and these numbers in a predetermined format, and publishes a bill 37. Similarly, the order reception machine 15 prints the bar code of a user's zip code, the address, a name, the telephone number, a delivery-of-goods classification code, etc. a receipt number, a user ID number, and these numbers on the delivery-of-goods bag 38 by the delivery-of-goods bag printing printer 20. These zip codes, address and name, etc. are specified based on the user ID number of print order data. In addition, when adopting a delivery-of-goods bag with a transparence aperture, the addressing name writing print to a delivery-of-goods bag may be omitted by entering address and name etc. in a bill. According to print size, various preparation of the delivery-of-goods bag 38 is carried out, for example, in large size prints, such as A0 - A3, a barrel is used. Moreover, you may print on the label other than direct printing to the delivery-of-goods bag 38, and this label is stuck on the delivery-of-goods bag 38 in this case.

[0034] Since the same receipt number and the same bar code are recorded on the prints 33, 35, and 36, the bill 37, and the delivery-of-goods bag 38 which were finished, collating is performed on the basis of these, and after being packed, processing of mailing, delivery, delivery, etc. is chosen by the delivery-of-goods classification code. In addition, after this packing being performed by the help based on a receipt number, and also reading a receipt number bar code automatically with a bar code reader and packing automatically, according to each delivery-of-goods classification, it is good as for a method of \*\*\*\*\*.

[0035] A printing charge is liquidated by the approach directed by the tariff payment approach directions data. For example, the order reception machine 15 can be printed in the tariff limit of this prepaid card in a user purchasing a prepaid card by a printed finish contractor etc. in the case of the prepaid card payment approach, and inputting this card ID number into it as print payment approach directions data.

[0036] In addition, although the image data which targets coma identification information at the printed finish contractor 14 based on coma identification information from the image database 13 by the side of a broadcasting station 11 by the delivery and printed finish contractor 14 side was searched with the above-mentioned operation gestalt As shown in drawing 5, a user 21 to in

addition, the order reception machine 15 installed in the broadcasting station 11 side Data transfer of coma identification information and the print order data is carried out through a dial-up line 28, and you may make it send image data and print order data to the printed finish contractor 14 through a dedicated line 50 by the broadcasting station 11 side. In addition, in drawing 5, the same sign is attached to the same structure as what is shown in drawing 1. Moreover, the printers 16-20 other than the order reception machine 15 may be formed in a broadcasting station 11, and a broadcasting station 11 may serve as a printed finish contractor. Moreover, conversely, the printed finish contractor 14 has an image database 13, offer of image data is periodically received from a broadcasting station 11, and you may make it update this.

[0037] Moreover, although an image coma for a print was specified with the above-mentioned operation gestalt, looking at the image of a television set 22, the image program by which television broadcasting was carried out is recorded on videotape on the video tape, coma identification information is also recorded together in this case, and when playing this video tape, an image coma for a print may be specified. Similarly, a quality print can be obtained in large size by recording a title identifier and image coma specific information to the image program recorded on record media, such as other CDs, DVDs and MO, and a laser disc. In this case, the printed finish contractor 14 gets the image data of an image coma for a print by connecting with the image database which has the original image data of the above-mentioned title.

[0038] Although what was coded as coma identification information combining a broadcasting station name, a program name, time, and an image coma number was used with the above-mentioned operation gestalt, the image coma of each scene may be specified from broadcasting station discernment data and broadcast time data. Furthermore, an image coma for a print may be specified with broadcasting station discernment data and frame number data. You may be the broadcasting station ID number assigned for every [ other than a broadcasting station name ] broadcasting station as broadcasting station discernment data. An image coma for a print may be similarly specified from a program name, a program ID number, and broadcast time data. Furthermore, two or more break signals are put in into image data, after resetting the counter which counts elapsed time or the number of progress image coma on the basis of the detection timing of this break signal, it may count up, and an image coma for a print may be specified by this break signal value and progress counted value. Moreover, it is good as coma identification information also as a method which incorporates the above-mentioned break signal other than televising time of day into a program.

[0039] Moreover, print edit directions data may be added to print order data, and a broadcast contractor's offer image and edit prints, such as image composition, may be performed by including a user's original image data in this case. A user original image has a video image, a personal computer edit image, the digital image of a photograph, etc. Moreover, comment sentence data are added to image data, and this may be printed on a print. The front face or rear face of a print is sufficient as a printing side, further, a comment sentence may be inserted in the image for a print, and it may compound it.

[0040] With the above-mentioned operation gestalt, although image coma discernment data were added to televising data, without adding image coma discernment data to televising data, from the television set by the side of a user, a video image transcription playback machine, and also the TV signal tuner section of an independent configuration, channel selection data may be incorporated and an image coma for a print may be specified using this channel selection data and the time data of an internal clock. In this case, an image coma for a print can be specified by using for example, (1/30) a second unit as time data. In addition, it is desirable as an internal clock to use what has a high precision which amends time of day periodically with the time-of-day signal from a communication satellite etc. in this case.

[0041] With the above-mentioned operation gestalt, although the silver salt type color digital printers 16 and 17 and an ink-jet color printer 18 were used, the color printer of a heat developing imprint method, a color thermal printer, and a color laser printer may be used. Moreover, a monochrome printer is used when performing a monochrome print with a natural thing.

[0042] Although each scene, such as television broadcasting and a movie, is specified and it was

made to print with the above-mentioned operation gestalt, it can print by the printed finish contractor similarly by specifying in the electronic address of this image data to the image offered on personal computer communications or the Internet.

[0043] It may be made to print, when coma identification information and print order data were received after [ although an image coma for a print is specified based on the coma identification information and print order data from a user and it was made to print automatically with the above-mentioned operation gestalt in addition ] carrying out data transfer of the outline image data of an assignment image coma, print control information, a printing charge, the delivery-of-goods time, etc. to the user and taking a check.

[0044] With the above-mentioned operation gestalt, although image data is read between one printed finish contractor and broadcasting station, in addition when the printed finish contractor is systematized, the printed finish contractor near a broadcasting station takes the lead, reads image data between broadcasting stations, and may be made to do data transfer of this image data to a user's nearby printed finish contractor.

[0045]

[Effect of the Invention] Since according to this invention an image coma for a print in an image program is specified and this coma identification information and print ordering information were sent to the print successful bidder by the coma identification information for corresponding to each image coma of an image program, and identifying each image coma, the signal transduction between a purchaser and a print successful bidder is print control information which consists of coma identification information and print ordering information, and since there is no need of sending image data, it can hold down communication link cost. And the print of high quality is attained at comparatively cheap communication link cost by forming the database which memorized original image data in a broadcasting station by connecting a print successful bidder to this image database by the dedicated line. Moreover, since coma identification information and print ordering information were sent to the print successful bidder, registration time amount is not limited to business hours like store reception, and reception becomes possible for 24 hours. Therefore, it can print efficiently and the time for delivery of a print can be shortened.

[0046] By incorporation of the image data [ program / which is supplied with broadcast record media, such as an image program and a video tape, / image ] by the side of the noise under electrical transmission, the duplicate to a record medium, and a user, and transform processing to digital data, although image quality deteriorates, since it can print using original image data, the image of high quality can be used and only the part can enlarge print size by this invention. Therefore, the image quality which is equal to appreciation in large size is acquired. Moreover, large size prints, such as a poster, a calender, and wallpaper, come to be obtained simply.

[0047] An image coma for a print can be easily specified by using this coma identification information by making it correspond to each image coma of television broadcasting, and adding and broadcasting the coma identification information for identifying each image coma.

[0048] Moreover, the arbitration scene of the image program which uses record media other than the broadcast image program, such as a video tape, and is supplied can be printed with high resolution by making it correspond to each image coma of the image program recorded on the record medium, and adding the coma identification information for identifying each image coma.

[0049] in order [ moreover, ] to print using the business-use printer of a print successful bidder, without using a video printer for home use etc. -- the above -- with the effectiveness using high resolution original image data, conjointly, it is much more quality and the print of large size can be obtained.

[0050] An image coma for a print can certainly be specified by constituting coma identification information from broadcasting station discernment data and broadcast time data. Moreover, print ordering information can ensure a print order by having the print directions data which direct print size and print number of sheets, and user ID data for identifying a user.

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

**[Drawing 1]** It is the schematic diagram showing the image print system of this invention.

**[Drawing 2]** It is the flow chart which shows the procedure by the side of a user.

**[Drawing 3]** It is the flow chart which shows the procedure by the side of a printed finish contractor.

**[Drawing 4]** It is the functional block diagram showing the silver salt type color digital printer used by the image print system of this invention.

**[Drawing 5]** It is the schematic diagram showing the image print system in other operation gestalten of this invention.

**[Description of Notations]**

10 Image Print System

11 Broadcasting Station

12 Public Address System

13 Image Database

14 Printed Finish Contractor (Print Successful Bidder)

15 Order Reception Machine

16 17 Silver salt type color digital printer

18 Ink Jet Printer

19 Bill Issue Printer

20 Delivery-of-Goods Bag Printing Printer

21 User (Purchaser)

22 Television Set

23 Print Order Machine

25 Workstation

26 Modem

33, 35, 36 Print

37 Bill

38 Delivery-of-Goods Bag

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[Translation done.]

## \* NOTICES \*

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- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

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CORRECTION OR AMENDMENT

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[Procedure amendment 1]

[Document to be Amended] Specification

[Item(s) to be Amended] Claim

[Method of Amendment] Modification

[Proposed Amendment]

[Claim(s)]

[Claim 1] It is the image print approach characterized by specifying the image for a print, and for delivery and a print successful bidder specifying the image for a print at a print successful bidder based on said identification information, and printing this identification information and print ordering information based on print ordering information from the original image of each image by the identification information for corresponding to each image coma of an image and identifying each image.

[Claim 2] Make it correspond to each image coma of the image program of television broadcasting, add and broadcast the coma identification information for identifying each image coma, and each of this broadcast image coma is observed. Specify an image coma for a print and the coma identification information of this specified image coma for a print is read. It is the image print approach characterized by for delivery and a print successful bidder specifying an image coma for a print for this coma identification information and print ordering information as a print successful bidder based on coma identification information, obtaining original image data to it, and printing on it based on print ordering information.

[Claim 3] Make it correspond to each image coma of the image program of a movie, add the coma identification information for identifying each image coma, and each image coma of said movie is observed. Specify an image coma for a print and the coma identification information of

this specified image coma for a print is read. It is the image print approach characterized by for delivery and a print successful bidder specifying an image coma for a print for this coma identification information and print ordering information as a print successful bidder based on coma identification information, obtaining original image data to it, and printing on it based on print ordering information.

[Claim 4] It is the image print approach characterized by to specify the image for a print using the electronic address of the data of this image, for delivery and a print successful bidder to specify the image for a print for this identification information and print ordering information of the image for a print that were specified as a print successful bidder based on said identification information, to obtain original image data to it to each image offered on personal computer communications or the Internet, and to print on it based on print ordering information.

[Claim 5] Make it correspond to each image coma of the image program recorded on the record medium, and the coma identification information for identifying each image coma is added. Observe each image coma reproduced with the regenerative apparatus, and an image coma for a print is specified. The coma identification information of this specified image coma for a print is read. This coma identification information and print ordering information to a print successful bidder delivery and a print successful bidder The image print approach characterized by specifying an image coma for a print based on coma identification information, obtaining original image data, and printing based on print ordering information.

[Claim 6] Said record medium is a video tape, CD, DVD and MO, and the image print approach according to claim 5 characterized by being any one of the laser discs.

[Claim 7] Said print successful bidder is claim 1 characterized by being two or more printed finish contractors, and for a specific printed finish contractor reading image data among two or more printed finish contractors, and carrying out data transfer of this image data to other printed finish contractors thru/or the image print approach given in any 6one.

[Claim 8] A specific printed finish contractor, and said printed finish contractor besides the above are the image print approach according to claim 7 characterized by being connected with the dedicated line.

[Claim 9] Said specific printed finish contractor is the image print approach according to claim 7 or 8 characterized by receiving offer of image data from said broadcasting station, and updating image data.

[Claim 10] Claim 2 characterized by constituting said coma identification information from title identification information of an image program, and a frame number of each image coma thru/or the image print approach given in any 9one.

[Claim 11] Claim 2 characterized by constituting said coma identification information from counted value of the elapsed time on the basis of the detection timing and this detection timing of the break signal formed in the image program, or the number of progress image coma thru/or the image print approach given in any 9one.

[Claim 12] Claim <U> 2 characterized by constituting said coma identification information from the identification information and broadcast time data of a broadcasting station thru/or the image print approach given in any 9one.

[Claim 13] Said print ordering information is claim 1 characterized by having the print directions data which direct print size and print number of sheets, and purchaser discernment data for identifying a purchaser thru/or the image print approach given in any 12one.

[Claim 14] Said print directions data are the image print approach according to claim 13 characterized by including any one of a print format and the print methods.

[Claim 15] Said print method is the image print approach according to claim 14 characterized by being the method which uses any one of a film photo printer, an ink jet printer, and the thermal printers.

[Claim 16] Said print ordering information is claim 13 characterized by including at least one of the delivery-of-goods approach directions data which direct the delivery-of-goods approach of a print, the tariff payment approach directions data which direct the tariff payment approach, and the print edit directions data thru/or the image print approach given in any 15one.

[Claim 17] Said delivery-of-goods approach directions data are the image print approach

according to claim 16 characterized by being directions data which choose any one of mailing, delivery, and the delivery.

[Claim 18] Said tariff payment approach directions data are the image print approach according to claim 16 or 17 characterized by being directions data which choose any one of credit card payment, bank automatic accounts transfer, bank transfer, prepaid card payment, and the cash payment.

[Claim 19] Said print edit directions data are claim 16 characterized by being data which direct the edit print which carries out image composition with said original image using the original image data of a purchaser thru/or the image print approach given in any 18one.

[Claim 20] The original image of said purchaser is the image print approach according to claim 19 characterized by being a video image, a personal computer edit image, and the digital image of a photograph.

[Claim 21] The image print approach according to claim 20 characterized by adding comment sentence data to said original image, and printing a comment sentence on a print.

[Claim 22] The image print approach according to claim 21 characterized by printing said comment sentence at the front face of a print, or the rear face, or inserting it in the image for a print, and compounding it.

[Claim 23] It is the image print system which it has the following, and said image coma specification means and a data transmitting means are formed in a purchaser side, and is characterized by forming said image data reading means and a print means in a print successful-bidder side. An image coma specification means to specify an image coma for a print based on coma identification information from an image program A data transmitting means to send said coma identification information and print ordering information to a print successful bidder An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database A print means to print based on the image data and print ordering information which were read

[Claim 24] It is the image print system which it has the following, and said image coma specification means, a coma identification information reading means, and a data transmitting means are formed in a purchaser side, and is characterized by forming said image data reading means and a print means in a print successful-bidder side. An image coma specification means to specify an image coma for a print from the image program which has the coma identification information which identifies each image coma A coma identification information reading means to read the coma identification information of the specified image coma for a print A data transmitting means to send coma identification information and print ordering information to a print successful bidder A print means to print based on an image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, and the image data and print ordering information which were read

[Claim 25] It is the image print system which it has the following, and said image specification means and a data transmitting means are formed in a purchaser side, and is characterized by forming said image data reading means and a print means in a print successful-bidder side. An image specification means to specify the image for a print by making the electronic address of the data of this image into identification information to each image offered on personal computer communications or the Internet A data transmitting means to send said identification information and print ordering information of the specified image for a print to a print successful bidder An image data reading means to specify the image for a print based on the identification information from a data transmitting means, and to read the original image data of this image for a print A print means to print based on the image data and print ordering information which were read

[Procedure amendment 2]

[Document to be Amended] Specification

[Item(s) to be Amended] 0005

[Method of Amendment] Modification

[Proposed Amendment]

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, by the identification information for the image print approach according to claim 1 corresponding to each image coma of an image, and identifying each image, the image for a print is specified, and delivery and a print successful bidder specify the image for a print as a print successful bidder based on said identification information, and print this identification information and print ordering information on it based on print ordering information from the original image of each image. moreover, by the image print approach according to claim 2 Make it correspond to each image coma of the image program of television broadcasting, add and broadcast the coma identification information for identifying each image coma, and each of this broadcast image coma is observed. Specify an image coma for a print and the coma identification information of this specified image coma for a print is read. Delivery and a print successful bidder specify an image coma for a print for this coma identification information and print ordering information as a print successful bidder based on coma identification information, original image data is obtained, and it is printing based on print ordering information.

[Procedure amendment 3]

[Document to be Amended] Specification

[Item(s) to be Amended] 0006

[Method of Amendment] Modification

[Proposed Amendment]

[0006] By the image print approach according to claim 3, make it correspond to each image coma of the image program of a movie, add the coma identification information for identifying each image coma, and each image coma of said movie is observed. Specify an image coma for a print and the coma identification information of this specified image coma for a print is read. Delivery and a print successful bidder specify an image coma for a print for this coma identification information and print ordering information as a print successful bidder based on coma identification information, original image data is obtained, and it is printing based on print ordering information. Moreover, by the image print approach according to claim 4, to each image offered on personal computer communications or the Internet, the image for a print is specified using the electronic address of the data of this image, delivery and a print successful bidder specify the image for a print for this identification information and print ordering information of the image for a print that were specified as a print successful bidder based on said identification information, original image data is obtained, and it is printing based on print ordering information. moreover, by the image print approach according to claim 5 Make it correspond to each image coma of the image program recorded on the record medium, and the coma identification information for identifying each image coma is added. Observe each image coma reproduced with the regenerative apparatus, and an image coma for a print is specified. The coma identification information of this specified image coma for a print is read. This coma identification information and print ordering information to a print successful bidder delivery and a print successful bidder An image coma for a print is specified based on coma identification information, original image data is obtained, and it prints based on print ordering information. As for said record medium, it is desirable that it is any one of a video tape, CD, DVD and MO, and the laser discs.

[Procedure amendment 4]

[Document to be Amended] Specification

[Item(s) to be Amended] 0007

[Method of Amendment] Modification

[Proposed Amendment]

[0007] In addition, said print successful bidders are two or more printed finish contractors, and it is desirable for a specific printed finish contractor to read image data among two or more printed finish contractors, and to carry out data transfer of this image data to other printed finish contractors. Moreover, as for a specific printed finish contractor, and said printed finish contractor besides the above, being connected with the dedicated line is desirable. Furthermore, it is desirable for said specific printed finish contractor to receive offer of image data from said broadcasting station, and to update image data. Moreover, it is desirable to constitute said coma



identification information from title identification information of an image program and a frame number of each image coma. Moreover, it is desirable to constitute said coma identification information from counted value of the elapsed time on the basis of the detection timing and this detection timing of the break signal formed in the image program or the number of progress image coma. Moreover, said coma identification information may consist of the identification information and broadcast time data of a broadcasting station. As for said print ordering information, it is desirable to have the print directions data which direct print size and print number of sheets, and purchaser discernment data for identifying a purchaser. Moreover, as for said print directions data, it is desirable that any one of a print format and the print methods is included. Moreover, as for said print method, it is desirable that it is the method which uses any one of a film photo printer, an ink jet printer, and the thermal printers. Moreover, as for said print ordering information, it is desirable that at least one of the delivery-of-goods approach directions data which direct the delivery-of-goods approach of a print, the tariff payment approach directions data which direct the tariff payment approach, and the print edit directions data is included. Furthermore, as for said delivery-of-goods approach directions data, it is desirable that it is directions data which choose any one of mailing, delivery, and the delivery. As for said tariff payment approach directions data, it is desirable that it is directions data which choose any one of credit card payment, bank automatic accounts transfer, bank transfer, prepaid card payment, and the cash payment. Moreover, as for said print edit directions data, it is desirable that it is data which direct the edit print which carries out image composition with said original image using the original image data of a purchaser. Moreover, as for the original image of said purchaser, it is desirable that they are a video image, a personal computer edit image, and the digital image of a photograph. Furthermore, it is desirable to add comment sentence data to said original image, and to print a comment sentence on a print. Moreover, it is desirable to print said comment sentence at the front face of a print or the rear face, or to insert it in the image for a print, and to compound it.

[Procedure amendment 5]

[Document to be Amended] Specification

[Item(s) to be Amended] 0008

[Method of Amendment] Modification

[Proposed Amendment]

[0008] An image coma specification means by which an image print system according to claim 23 specifies an image coma for a print based on coma identification information from an image program, A data transmitting means to send said coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, It has a print means to print based on the image data and print ordering information which were read, said image coma specification means and a data transmitting means are formed in a purchaser side, and said image data reading means and a print means are formed in a print successful-bidder side. Moreover, an image coma specification means to specify an image coma for a print from the image program which has the coma identification information from which invention according to claim 24 discriminates each image coma, A coma identification information reading means to read the coma identification information of the specified image coma for a print, A data transmitting means to send coma identification information and print ordering information to a print successful bidder, An image data reading means to specify an image coma for a print based on the coma identification information from a data transmitting means, and to read the original image data of this image coma for a print in an image database, It has a print means to print based on the image data and print ordering information which were read. Said image coma specification means, a coma identification information reading means, and a data transmitting means are formed in a purchaser side, and said image data reading means and a print means are formed in a print successful-bidder side. Moreover, invention according to claim 25 receives each image offered on personal computer communications or the Internet. An image specification means to specify the image for a print by making the electronic address of the data

of this image into identification information, A data transmitting means to send said identification information and print ordering information of the specified image for a print to a print successful bidder, An image data reading means to specify the image for a print based on the identification information from a data transmitting means, and to read the original image data of this image for a print, It has a print means to print based on the image data and print ordering information which were read, said image specification means and a data transmitting means are formed in a purchaser side, and said image data reading means and a print means are formed in a print successful-bidder side.

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[Translation done.]